

Storm Water Outfall Summary
Outfalls Targeted for 2006/2007 Water Year

Outfall(s)	Facility or Location	River Mile	Land Use	Industrial Type	LWG Member	Notes and Comments
High Priority Sites (13 Outfalls)						
WR-24	OSM	2.1	Heavy Industrial	Steel Manufacturing	Yes	Sampling required due to likely PCB stormwater source. Some stormwater catch basin solids data available. OSM is pursuing stormwater treatment to be implemented in 2007.
WR-121 or WR-123	Schnitzer International Slip	3.7	Heavy Industrial	Metals	No	Metals exceed AWQC in International slip. Metals recycling and related industries. DEQ is working with Schnitzer on characterization. Project manager input required to confirm proper outfall.
WR-108	Schnitzer - Riverside	4	Heavy Industrial	Metals	No	Metals recycling and related industries. DEQ is working with Schnitzer on characterization. Project manager input required to confirm proper outfall.
WR-107	GASCO	6.4	Heavy Industrial	MGP	Yes	MGP waste
OF-49	Willamette Cove	6.6	Heavy Industrial	Ship maintenance and Repair	Yes	Industrial land use ceased at these sites in 1979 and 1981. Willamette Cove is a vacant site with no activity. However, elevated levels of PCBs have been detected in surface water, clam tissue and sculpin tissue within Willamette Cove. Only OF-49 is "active". Outfalls WR 189 through 193 either do not exist or are historical inactive outfalls (Port memo to DEQ dated May 19, 2006).
WR-6	Rhone Poulenc	6.9	Heavy Industrial	Pesticide and herbicide manufacturing	Yes	Stormwater discharges to WWTP. WWTP discharges to river under major Industrial NPDES Permit. Evaluate existing data and treatment system to determine whether to sample.
WR-96	Arkema	7.3	Heavy Industrial	Chemical Manufacturing	Yes	Project manager input required to identify proper outfall to sample. Pesticide and other chlorinated chemical manufacturing.
WR-14	Chevron - Transportaion	7.7	Heavy Industrial	Bulk Fuel	Yes	Between downstream Chrevron Docks
WR-161	Portland Shipyard	8.2	Heavy Industrial	Ship maintenance and Repair	Yes	Downtown end of Swan Island; discharges at dry docks. Project manager input required to identify proper outfall to sample.
Dischagres to M-1	Freightliner Truck Plant	Swan Island Lagoon	Heavy Industrial	Manufacturing	No	Site has two connections to municipal conveyance; need to determine appropriate monitoring location
Dischagres to M-1	Fred Devine	Swan Island Lagoon	Light Industrial	Equipment maintenance	No	Source of PAHs and phthalates.
WR-145	Gunderson	8.9	Heavy Industrial	Barge and Railroad Car Manufacturing	Yes	Launchway. Grabs and catch basin being sampled under DEQ program. Project manager input required to identify proper outfall to sample.
WR-148	Gunderson (former Schnitzer)	9	Heavy Industrial	Metals Handling	Yes	Upstream end of Gunderson. Grabs and catch basin being sampled under DEQ program. Project manager input required to identify proper outfall to sample.
Discharges to OF-17	GE Decommissioning	9.7	Heavy Industrial	Electrical equipment	No	PCB Source. GE discharge sampling recommended. Outfall 17 not recommended for land use sampling because basin is mixed use.
Land Use Based (11 Outfalls)						

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Numerous ODOT Outfalls	Hwy 30	TBD	Major Transportation	Highways	No	Numerous ODOT outfalls along Hwy 30. City has ODOT as built. Research required to identify sampling locations.
WR-26	BP/Arco Bulk Fuel	4.7	Heavy Industrial	Bulk Fuel	No	Bracket range of bulk fuel facilities
OF-49	St. Johns (City Outfall)	6.5	Residential	Local traffic/residential	Yes *	Residential SE of St. Johns Bridge - 64 acres
WR-66	Siltronic	6.5	Heavy Industrial	Silicon wafer manufacturing	Yes	Downstream end of Wacker. Sample subbasin upstream of process wastewater
OF-22C (upstream of Hwy 30)	Forest Park (City Outfall)	6.9	Open Space (Forest Park)	Forest land	Yes *	Doane Creek basin - appx 900 acres forest land; sample upstream of Hwy 30. May be other options (e.g., Saltzman Creek).
WR-22B	City Outfall draining Front Avenue (Gould, Rhone Poulenc, Doane Lake, Air Liquide)	6.9	Heavy Industrial	Chemical Mfc	Yes *	37 Acres. City considering under DEQ program; source control has been performed (e.g, lining). Dry weather data is available.
OF-M2	Mocks Bottom (City Outfall)	Swan Island Lagoon	Light Industrial	Trucking and Distribution	Yes *	Trucking and distribution, 118 acres
OF-22	Willbridge	7.7	Heavy Industrial	Petroleum	Yes *	Require Chevron, Conoco and McCall share sampling responsibility of OF-22 to get land use data for bulk oil and asphalt.
OF-16	Multiple	9.7	Mixed Industrial Use	Mixed Use	Yes *	Almost exclusively mixed Industrial. City of Portland is pursuing with DEQ for subsequent water years.
WR-218 (downstream of OF 46)	UPRR Albina	10	Heavy Industrial	Railyard	Yes	Check with PM about outfall selection.
OF-12	Fremont Bridge - drains Hwy 30 and 405 interchange.	11.1	Major Transportation	Highways	Yes *	Further reconn needed to determine monitoring location. DEQ will talk with ODOT.
T4- Recontamination Evaluation (7 Outfalls)						
OF-52-C	T-4 (City Outfall).	4.3	Light Industrial	Materials	Yes	Head of Slip 1. Apply to light industrial land use category.
OF-53	Residential above T4.	5.1	Residential	Local traffic/residential	Yes	Residential NE of St. Johns Bridge - 102 acres. Apply to residential land use category.
WR-183/Basin R	T-4, Slip 1.	4.3	Heavy Industrial	Materials	Yes	Apply to heavy industrial land use category.
WR-181/Basin Q.	T-4, Slip 1.	4.3	Heavy Industrial	Materials	Yes	Apply to heavy industrial land use category. This outfall is below the water level. A composite sampler port is being constructed to access the flow post all drainage collection for this basin.
WR-177/Basin M	T-4, Slip 1	4.3	Heavy Industrial	Materials	Yes	Apply to heavy industrial land use category.
WR-20/Basin L	T-4 - Wheeler Bay	4.5	Heavy Industrial	Materials	Yes	Apply to heavy industrial land use category.
WR-169/Basin D	T-4 (Toyota)	4.7	Light Industrial	Materials	Yes	Downstream end of Toyota. Phthalate source. Apply to heavy industrial land use category.
DEQ JSCS Program (21 Outfalls)						
WR-327 or 328	Terminal 5	1.1	Heavy Industrial	Materials	Yes	Downstream of Portland Harbor Study Area
T4- Recontamination Evaluation (7 Outfalls)	Consolidated Metco	2.8	Heavy Industrial	Metals Handling	No	See OF-53-A above
Unknown	PGE	3.1	Light Industrial	Fuel Storage	No	No outfalls depicted on map
WR-151	Time Oil	3.4	Heavy Industrial	Petroleum	Yes	

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WR-75, 76 or 77	Kinder Morgan (aka GATX)	4.1	Heavy Industrial	Petroleum	No	
WR-212 or WR-210	Brix Maritime (aka Foss)	5.5	Light Industrial	Ship maintenance and Repair	No	
WR-207	Marine Finance	5.8	Light Industrial	Manufacturing	No	
WR-187 or WR-188	Crawford St. Corporation	6.3	Heavy Industrial	Metals Handling	No	Copper source
WR-9, 10, or 11	McCall Oil	8	Heavy Industrial	Petroleum and Asphalt production	No	
WR-7, WR-8; also discharges to OF-19	Glacier Northwest	8.1	Light Industrial	Aggregate processing	No	
WR-7, WR-8; also discharges to OF-19	Front Avenue LP	8.1	Heavy Industrial	Manufacturing	No	
OF-19	Chevron Asphalt, Calbag Metals, Front Ave LLP, PGE forest Park, Schnitzer Kittridge, Mt. Hood Chemical (2)	8.3	Mixed Industrial Use	Mixed Use	Yes *	Discharges at Shaver Transportation - City has committed to investigating under DEQ RI. Additional site discovery work may be required.
Discharges to OF 18	Christensen Oil	8.8	Heavy Industrial	Petroleum	No	See OF-18 above
Discharges to OF 18	Owens Corning (Trumbull Asphalt)	8.8	Heavy Industrial	Asphalt production	No	
Discharges to OF 18	Texaco Bulk Fuel	8.8	Heavy Industrial	Petroleum	No	
Discharges to M-3	Freightliner Parts Plant	Swan Island Lagoon	Heavy Industrial	Manufacturing	No	
Unknown	Guilds Lake Railroad Yard	9	Heavy Industrial	Railroad	No	Need to confirm outfalls to be sampled.
WR-218	UPRR Albina	10	Heavy Industrial	Railroad	Yes	Railroad Yard. Outfall based on catch basin data and proximity to AOPC. Need to verify.
WR-1 through WR-5	Sulzer Pump	10.4	Heavy Industrial	Manufacturing	No	
WR-222 through 234	Terminal 1	10.8	Residential	NA	Yes	Former marine terminal. Converted to high density residential. North parcel owned by the COP for big dig project (appears complete). South parcel is condominiums.
Discharges to OF 17	Galvinzers	9.7	Heavy Industrial	Manufacturing	No	

Notes

* City outfall draining multiple properties

Outfalls were initially identified based on LWG and City of Portland proposals and sites identified by DEQ for sampling; discussed at November 30, 2006 Meeting and refined based on input from the Port of Portland, City of Portland, DEQ and EPA.

Sites to be sampled based on high priority or land use basis will use method that includes flow or time-weighted whole water samples and sediment traps.

T-4 Sites to be sampled based on site specific sampling protocol. Sampling results may be applicable to other land use areas.

Sites to be sampled as part of DEQ program will follow JSCS protocol